ENTRY VUE
video intercom systems

RK INSTRUCTION MANUAL

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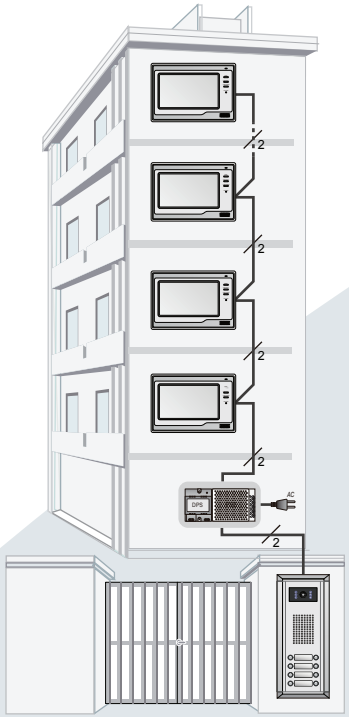
Features:

- 2-wire system (no polarity between door station and monitors);
- Centralized power supply for the entire system;
- Full anodize aluminum panel;
- SONY color CCD camera;
- Camera's angle is adjustable;
- Access control is optional (max.1000 ID cards);
- IP45 protection rate;
- Night view LED lights;
- Lighted name plate;
- Direct connect either an electric door strike or a magnetic lock to Door Station;
- Direct connect an exit button to Door Station;
- Inner call between monitors;
- One monitor can be programmed as Guard unit.



System Capacity:

- Maximum 4 Door Stations or,
  3 Door Stations plus 2 CCTV Cameras* or,
  2 Door Stations plus 4 CCTV Cameras* or,
  1 Door Station plus 6 CCTV Cameras*.
- Maximum 32 apartments;
- Maximum 4 monitors per apartment.

*Need need to purchase a DCU module for every 2 cameras.

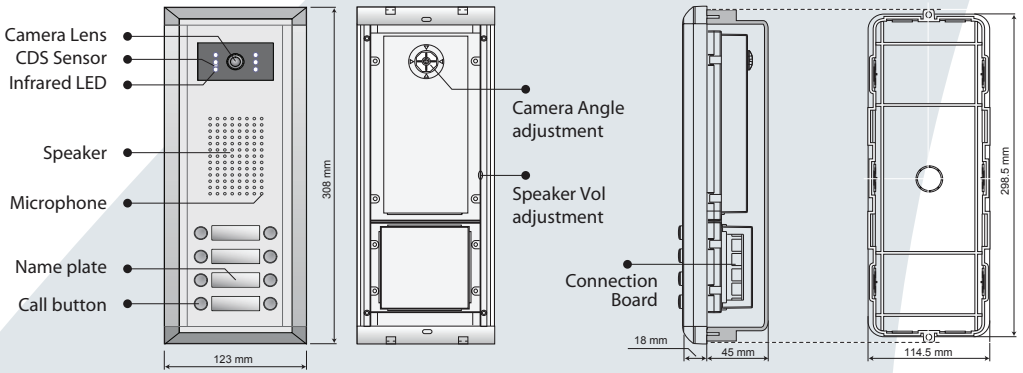
Specifications:

Power Supply	24Vdc (supplied by PS-50 or PS-55).
Power Consumption	11W in standby, 15W in working mode.
Camera	Sony color CCD, 420 lines; Viewing angle is 85 degrees.
Unlock Power output	12Vdc 300mA.
Working Tempereature	-4˚F to 122˚F -20˚C to 50˚C

Maximum distance:

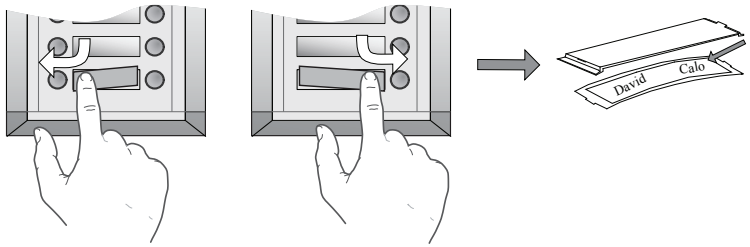
Wire used	Maximum distance between door station and the last monitor of the line.	Comment
CAT5 or CAT6	300 feet (100 meters)	Use 1 pair for each conductor. Solder the ends of the pair together
18/2 speaker wire (stranded, not sheilded)	300 feet (100 meters)	Solder connections together. Set voltage between 25-27 volt (can be adjusted on the power supply)
14/2 speaker wire (stranded, not sheilded)	500 feet (150 meters)	

Parts and functions:

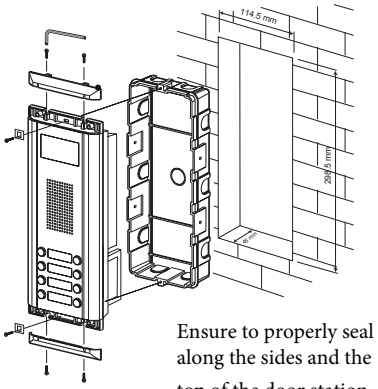


Name Plate:

Press down and shift right/left to open the name plate cover. Insert the name paper, and then insert the name plate cover back to the panel. Note that double button line panel can be opened from both directions, and single button line can be opened only from the right side.



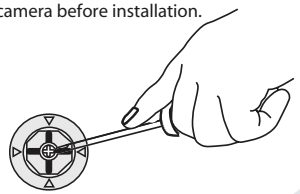
Standard Installation:



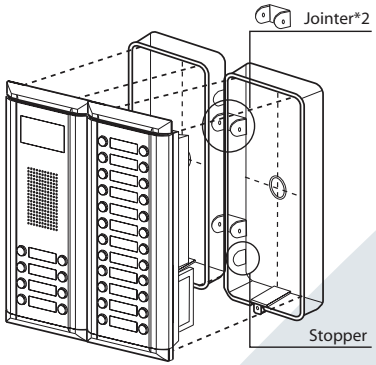
Ensure to properly seal along the sides and the top of the door station.

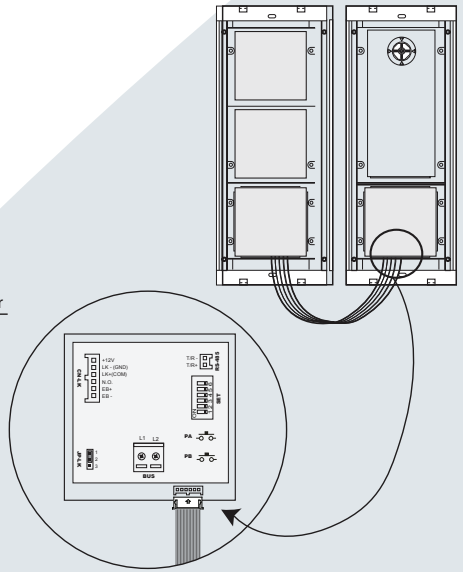
Camera Angle adjustment

Open the mounting box of the panel, use a cross screw to adjust the view angle of the camera before installation.



Installation with expanding panel

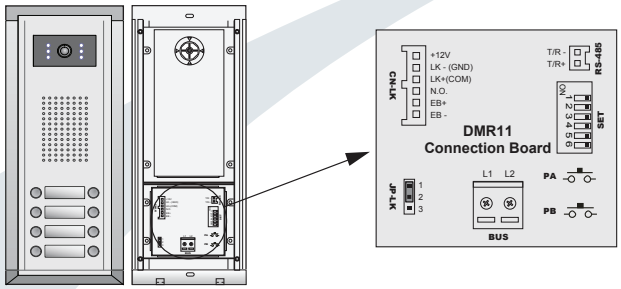




Note

The double button line expantion panel can only be connected to double button line Door Station,the single button line expantion panel can only be connected to single button line Door Station. Ensure to ro er se ot s es n t e to o t e oor st t on

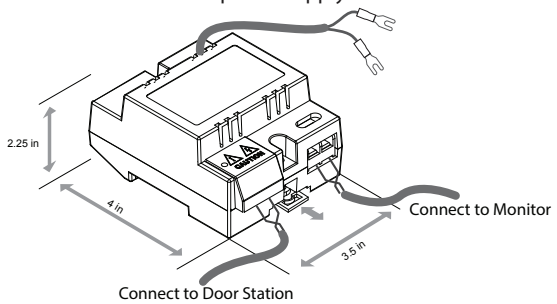
Terminal Descriptions:



- +12V: 12 VDC power output.
- LK-(GND): power ground.
- LK+(COM): electronical load activation relay contact common.
- NO.: Normally open contact (the default setting for this terminal is NO, but it can be configured to normally closed contact NC.)
- EB+: Exit button.
- EB-: Exit button.
- JP-LK: Jumper (refer to Electric Door Strike/Magnetic lock).
- T/R-: USB-RS485 communication terminal negative.
- T/R+: USB-RS485 communication terminal positive.
- SET: DIP switches for system configurations.
- PA: Press once to send the name list to Monitor; press and hold for 3 seconds to add Master card.
- PB: Press once to search the Right line Monitor; press and hold for 3 seconds to search left line Monitor.
- Bus (L1,L2) : non-poliarity bus line.

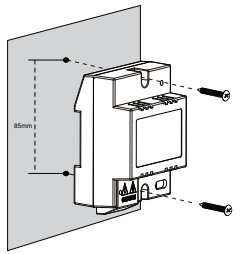
DPS

This unit is a power distributor for the PS-50 or PS-55 power supply. It transfers the power from the power supply to the suitable power for the non polarity bus. Note that the DPS must work together with the PS-50 or PS-55 power supply.

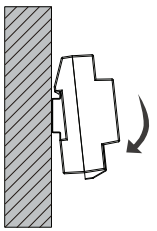


Power input: 24Vdc (supplied by power supply)
Power output: 18Vdc
Power Consumption: 0.25W in standby, 0.5W in working mode

Direct Wall Mounting



DIN Rail Mounting



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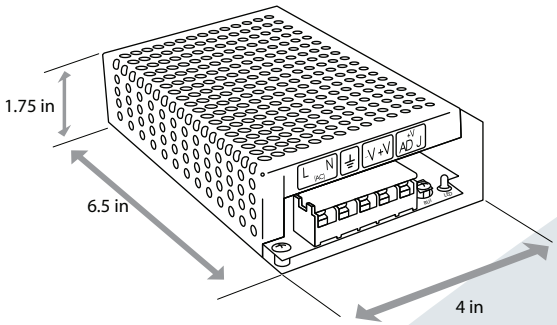
Power Supply:

PS-50:

*The PS-50 supports up to 32 Monitors and 4 Door Stations;
*Universal AC input.

L: AC input
N: AC input
: Earth Ground
V- (or COM): DC power output
V+: DC power output
VADJ: Output voltage adjustment
LED: Working state indicator

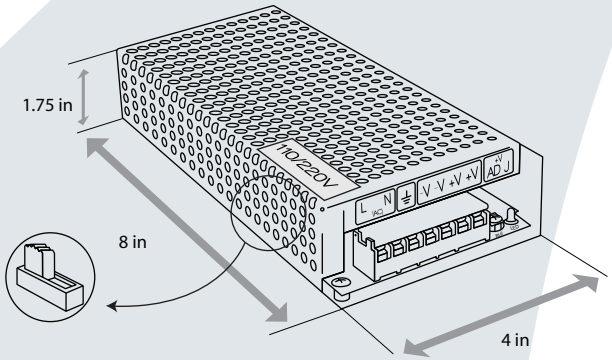


INPUT: 100-240V / L N GROUND
50/60HZ
OUTPUT: 24VDC,3A V- V+

PS-55:

*The PS-55 is recommended if you have 2 or more monitors in each apartment;
*Universal AC input.

L: AC input
N: AC input
: Earth Ground
V- (or COM): DC power output
V+: DC power output
VADJ: Output voltage adjustment
LED: Working state indicator

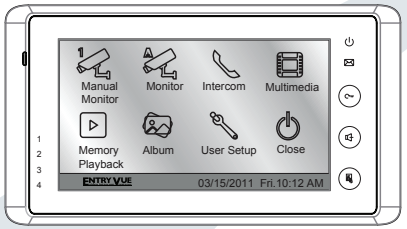


INPUT: 100-240V / L N GROUND
50/60HZ
OUTPUT: 24VDC,5A V- V+

DUAL INPUT VOLTAGE: 110/220V AC
SELECT PROPER VOLTAGE BY MOVING THE SWITCH
TO THE CORRECT POSITION.

Monitor:

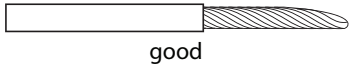
P7 Monitor



P10 Monitor

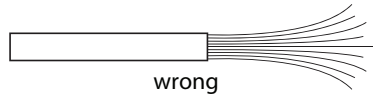
Connecting the Green Plug to the back of the monitor:

Strip the ends of the wires about 1/3". If using stranded wire or CAT5, you MUST solder the ends to ensure a good connection. DO NOT use wire nuts to connect the wires (wire nuts are for power and solid wires.)

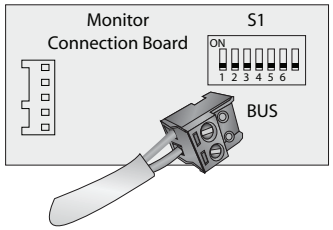


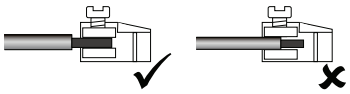
good

well twisted and soldered



wrong





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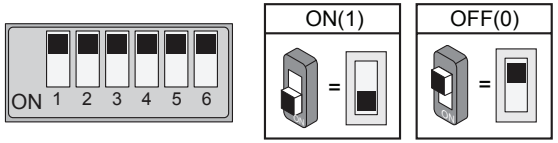
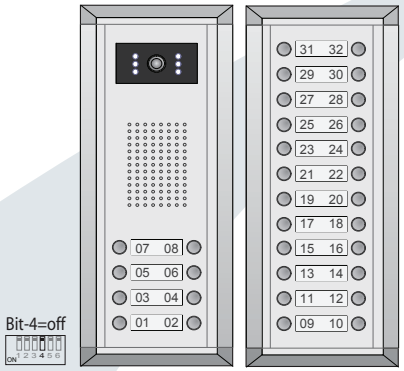
Door Station ID Settings:

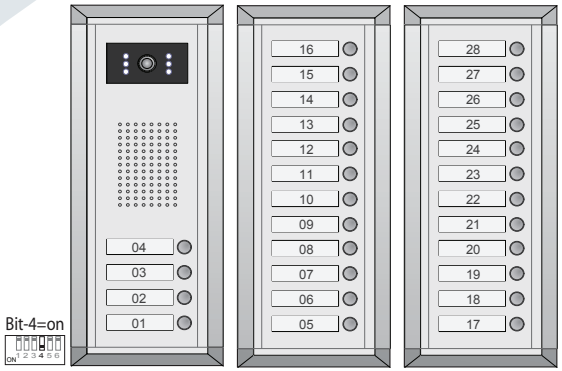


*Dip Switches 1 and 2: For the Door Station ID setting. When multi Door Stations are installed in the system, these two Dip Switches must be set correctly.
*Dip Switch 3: To select a Single Line Button or Double Line Button Door Station.
*Dip Switch 4: Button code selection. Set OFF if using default codes for each button. Set ON if using programmed codes. Each code must be programmed by the DT CONFIG. SOFTWARE.
*Dip Switch 5: Unlocking time quick selection. Set OFF for 1 second unlocking time - default setting. Set ON for 5 seconds unlocking time; this can be changed by the DT CONFIG. SOFTWARE.
*Dip Switch 6: Must be set OFF.

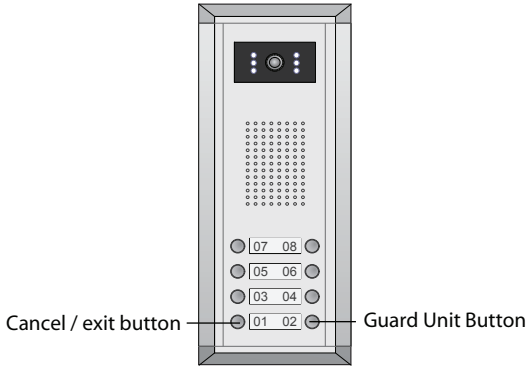
Dip Switches		Function Descriptions
Dip Switches 1 and 2		ID = 0, set to the first Door Station.
		ID = 1, set to the second Door Station.
		ID = 2, set to the third Door Station.
		ID = 3, set to the fourth Door Station.
Dip Switches 3		Double Line Button.
		Single Line Button.
Dip Switches 4		Set OFF if using defaut codes for each button.
		Set ON if using programmed codes.
Dip Switches 5		Default setting, unlocking time = 1 second.
		Unlocking time = 5 seconds.(can be changed by software)
Dip Switches 6		Working state
		Function reserved

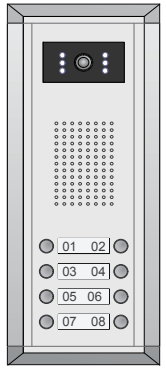
Each call button of the Door Station is assigned to a speific apartment, and pressing a call button will call the related monitor. The default User Code for each call button has been pre-defined as shown below:





The User Code addresses of the Call Buttons can be changed if needed. You can also add a cancel / exit button or an extra button for a security guard. Please refer to the DT-CONFIG. SOFTWARE user manual for additional information.





Monitor - User Code Settings:

Every apartment must have an unique user code. There are a total of 6 Dip Switches in the back of each monitor, and they must be confirgured correctly.

*Dip Switches 1 to 5: User Code Setting; There are a total of 32 different user codes.

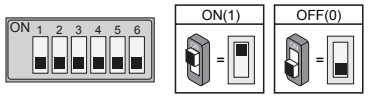
*You can add a maximum of 4 monitors in each apartment, and they must be set with the same user code.

The first monitor of the line should be programmed as MASTER, and the others should be programmes as SLAVE.

*Dip Switch 6: Line terminal Switch, please note:

*If DAISY CHAIN connection used, the dip switch # 6 should be set ON only on the monitor that is at the end of the line.

*If PARALLEL connection used, all monitors should have the dip switch # 6 set ON.



Dip Switch #6	Setting	Dip Switch #6	Setting
	Monitor not at the end of the line.		Monitor at the end of the line.

Dip Switches	User Code	Dip Switches	User Code	Dip Switches	User Code
	Code=1		Code=12		Code=23
	Code=2		Code=13		Code=24
	Code=3		Code=14		Code=25
	Code=4		Code=15		Code=26
	Code=5		Code=16		Code=27
	Code=6		Code=17		Code=28
	Code=7		Code=18		Code=29
	Code=8		Code=19		Code=30
	Code=9		Code=20		Code=31
	Code=10		Code=21		Code=32
	Code=11		Code=22		

Slave address:

You can add a maximum of 4 monitors in each apartment, and they must be set with the same User Code.

The first monitor of the line should be programmed as MASTER, and the others should be programmed as SLAVE.

When the Door Station calls, all monitors will ring simultaneously, and only the master monitor will show the video. To program the slave monitors to show the video, select the "Installer Setup", and enter the code 8006#.

MASTER / SLAVE PROGRAMMING:

1. From the Main Menu, press the ENTRYVUE logo located on the bottom left of the screen;
2. Press and hold the screen for 3 seconds, then select "Installer Setup",
3. Enter the proper code for MATER or SLAVE;
4. Press "#" to save the new setting;
5. Press "cancel" to exit out.

Basic instructions:

1. Check the contents of your order. To be able to set up a system, you must have at least the following:

* One Door station
* One Monitor
* Dps Box (Power distributor Box)
* Power Supply (PS-50 or PS-55)

2. Recommended wires are:

* 14 gauge 2 conductor stranded wire, not shielded (speaker wire).
* CAT5 (MUST use a pair of wire for each conductor)

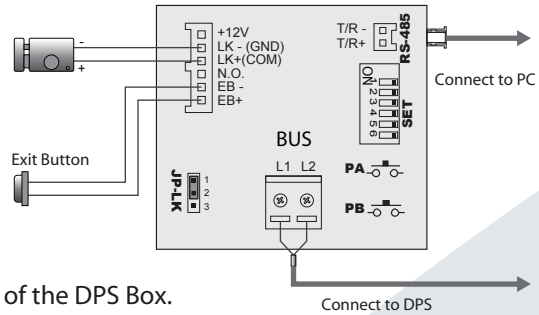
Strip the ends of the wires about 1/3". If using stranded wire or CAT5, solder the ends to ensure a good connection. Do Not use wire nuts to connect wires (wire nuts are for power and solid wires).

well twisted and soldered

3. If multiple door stations and monitors are used, you can connect them in series (daisy chain) or in parallel.

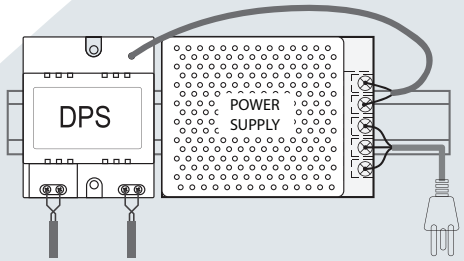
4.Setup:

4.1 Door Station: Connect the wire to the BUS connection on the Door Station (no polarity). Then connect the other end of that same wire to the left connection on the DPS box.



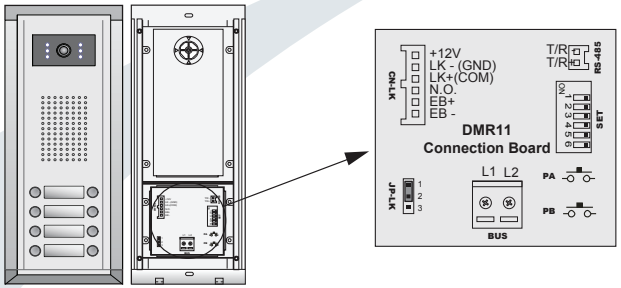
4.2 Connect the wire to the right side of the DPS Box. Then connect the other end of that same wire to the green plug and then to the back of the monitor. Make sure that these wires do not twist too much, and that they are well isolated from each other.

4.3 Connect the Red Wire of the DPS Box to the Positive (24V) of the power supply, usually the V+ or the Red connection. The black wire should connect to the V- (COM) or the black connection of the power supply.



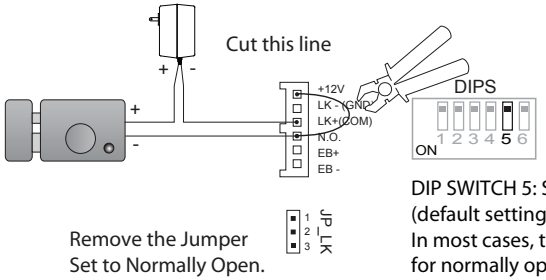
4.4 Plug in the power supply: Connect the terminal L and N to 110 - 240V input. This can be hardwird or a power cord plug can be connected to an electric outlet.
If you have a PS-55, make sure that the voltage switch in the unit is set to 110V or 220V before turning ON (depending the country where you live).

5. Electric Door Strike / Magnetic Lock:



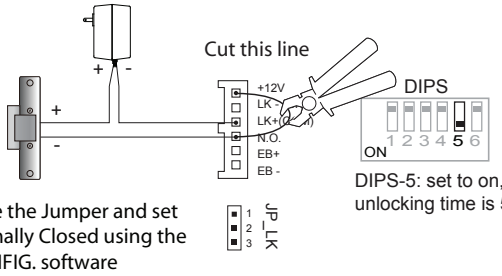
*The RK System is compatible with Electric Door Strikes and Magnetic Locks only;
*It is recommended to use an individual power supply for the door lock;
*Remove the black jumper from the JP-LK port;
*The default unlock type is *normally open*, but it can be changed to *normally closed* by the DT-CONFIG. software under the Parameter tab.

5.1 Connection for power to unlock:



DIP SWITCH 5: Set OFF for 1 second unlocking time (default setting).
In most cases, the 1 second unlocking time works best for normally open locks.

5.2 Connection for power off to unlock:

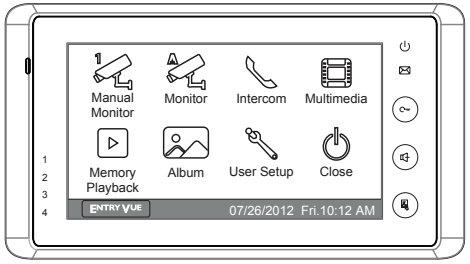


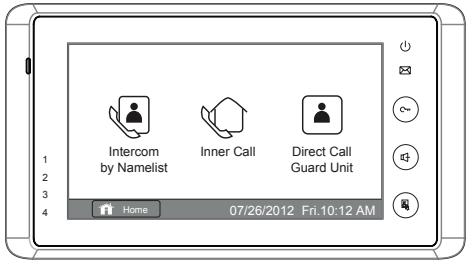
DIPS-5: set to on,
unlocking time is 5 seconds.

5.3 No lock:

If you are not planning to use the Unlock Feature, and will not have a lock directly connected to the Door Station, please set the Jumper to position 1 and 2.

6.0 Intercom function:





6.1 Direct Call Guard Unit:

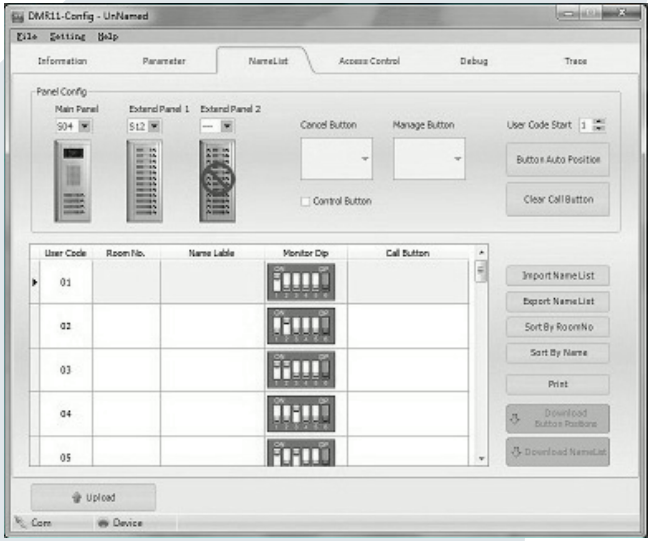
You can assign one monitor to be the Guard Unit by programming on the Installer's Setup. Press the "ENTRYVUE" logo located on the bottom left of the main menu, press and hold the screen for 3 seconds, select "Installer Setup", and enter the code 8004#.

6.2 Inner Call:

The Inner call is available when multi monitors are installed in a single apartment. When you select the "Inner call", all monitors in the apartment will ring, and when a monitor is answered, the others will stop ringing.

6.3 Intercom by Namelist:

This feature is for apartment to apartment calling. You can call a specific apartment by selecting the apartment number or the name on the screen. A complete namelist of all users can be uploaded to the Door Station by the DT-CONFIG. SOFTWARE, and then the Door Station will automatically send it to all monitors.



7. Setup Timing Options:

* Pick-up waiting time: This is the call timing from the Door Station to the monitor. The default setting is 30 seconds.
* Talking time: This is the open communication timing from the monitor to the Door Station. The default setting is 90 seconds.
* Intercom time: This is the call timing from monitor to monitor (Intercom feature). The default setting is 30 seconds.
* Monitoring time: An user can monitor the Door Station camera or a CCTV camera. The defaut setting is 30 seconds.

*Note that the Timing Options can be changed by the DT-CONFIG. software under the Parameter tab.

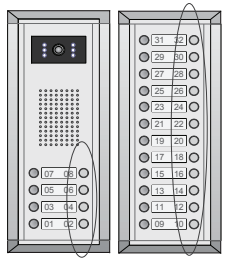
8. Online Search:

This function was designed for the purpose of searching for online monitors, and to check if all monitors are working. There are 3 different ways to search for online monitors:
*Manually search
*ID tag
*DT-CONFIG SOFTWARE

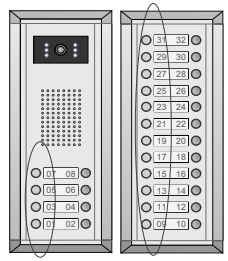
When this function is on working mode, the Door Station will search every monitor with User Codes from 1 to 32. If a monitor is found online and is working, the LED light corresponding to that User Code will light up and 1-beep sound will be heard. If a monitor is not found or malfunctioning, the LED light corresponding to that User Code will not light up, and 3-beep sound will be heard.
You can interrupt the search at any time by pressing the PB button located in the back of the door station.

8.1 Manual Search:

Press the PB button to search for the monitors in the right Call Button's Column.
Press and hold the PB button for 3 seconds to search for the monitors in the left Call Button's Column.



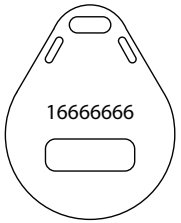
PB button
Online search range



PB button for 3 seconds
Online search range

8.2 ID Tag

The Door Station comes standard with a *Online Search Card* labeled with the number 16666666, which is designed for the online search only.

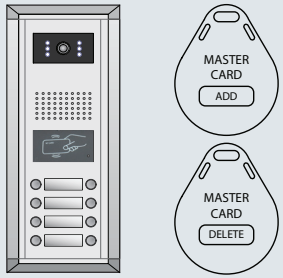


Show the ID card in front of the Door Station's Card Reader for 3 seconds to search for the monitors in the right Call Button's Column.
Show the ID card in front of the Door Station's Card Reader twice within 3 seconds to search for the monitors in the left Call Button's Column.

8.3 DT-CONFIG. SOFTWARE:

Press the "Online Search" button from the Debug tab to start searching for online monitors.

9. ID Card Settings:



* Up to 1000 user cards/key fobs can be registered.
* Easy management with LED state and Sound hint.
* There are two master cards, one MASTER CARD ADD and one MASTER CARD DELETE. When adding a new Master Card, the old one will be automatically deleted.
* The card reading distance is about 1 to 2 in.
* You can manually add and delete cards, or you can easily manage the cards by using the DT-CONFIG. SOFTWARE.

9.1 Adding new User Cards/Key Fobs:

Show the *MASTER CARD ADD* card in standby. Note. sounded Di~,Di → Show the cards to be added, one by one. Note. Long beep if added successefully, two long beeps if repeated. → Show the *MASTER CARD ADD* card again to exit. It will exit if no card is showed within 15s.

9.2 Deleting User Cards/Key Fobs:

Show the *MASTER CARD DELETE* card in standby. Note. sounded Di~,Di → Show the cards to be deleted, one by one. Note. Long beep if deleted successfully → Show the *MASTER CARD DELETE* card again to exit. It will exit if no card is showed within 15s.

9.3 Deleting ALL User Cards/Key Fobs:

Show the *MASTER CARD DELETE* card in standby. Note. sounded Di~,Di → Show the *MASTER CARD ADD* card to run format operation. → Show the *MASTER CARD ADD* card again within 3 seconds to confirm the Format operation.

9.4 Authorizing New Master Cards:

When Door Station is in standby, press *PA* button and hold for 3 seconds to get into the master card manage state. → Show the card to be autorized as *MASTER CARD ADD*, you will hear a long beep*[1] → show the card to be authorized as *MASTER CARD DELETE*, and then the Reader willexit out automatically.

*To authorize a *MASTER CARD DELETE*, ensure to show the *MASTER CARD ADD* first. The programming must be completed within 10 seconds.

9.5 Adding User Cards/Key Fobs by Room:

Show the *MASTER CARD ADD* card in standby → Press a certain button on the Door Station, then show the cards to be assigned to this Room. Repeat the same step untill finished. → Show the *MASTER CARD ADD* card again to confirm and exit.

9.6 Deleting User Cards/Key Fobs by Room:

Show the *MASTER CARD DELETE* card in standby → Press the button that the cards belong to on the Door Station.(all cards will be deleted) → Show the *MASTER CARD DELETE* card again to confirm and exit.

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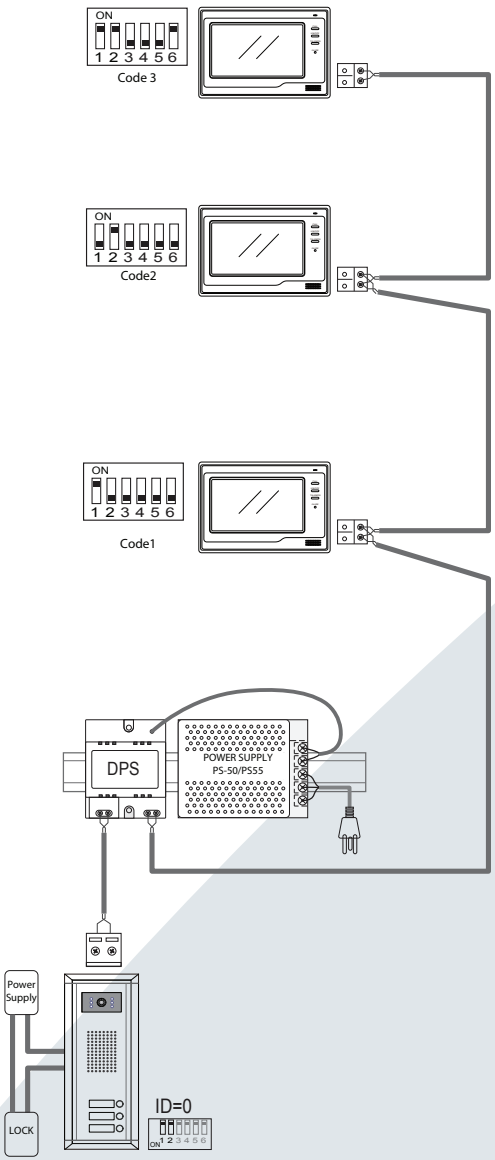
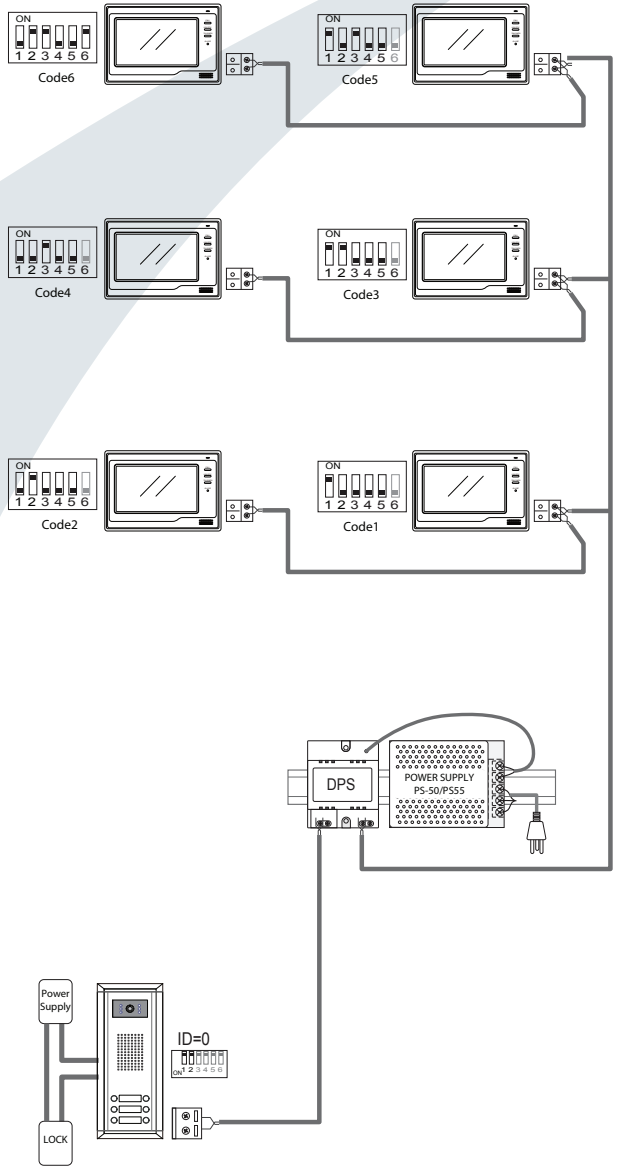
video intercom systems

10. System Wiring Diagram:

Example 1:



Example 2:



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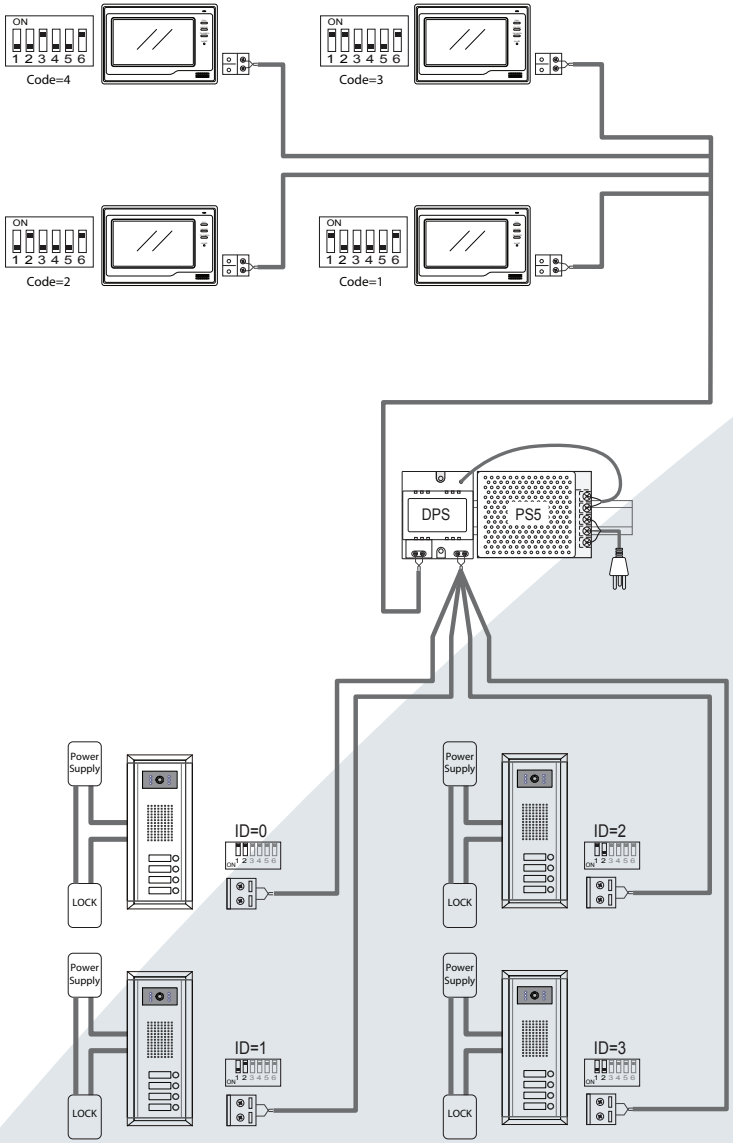
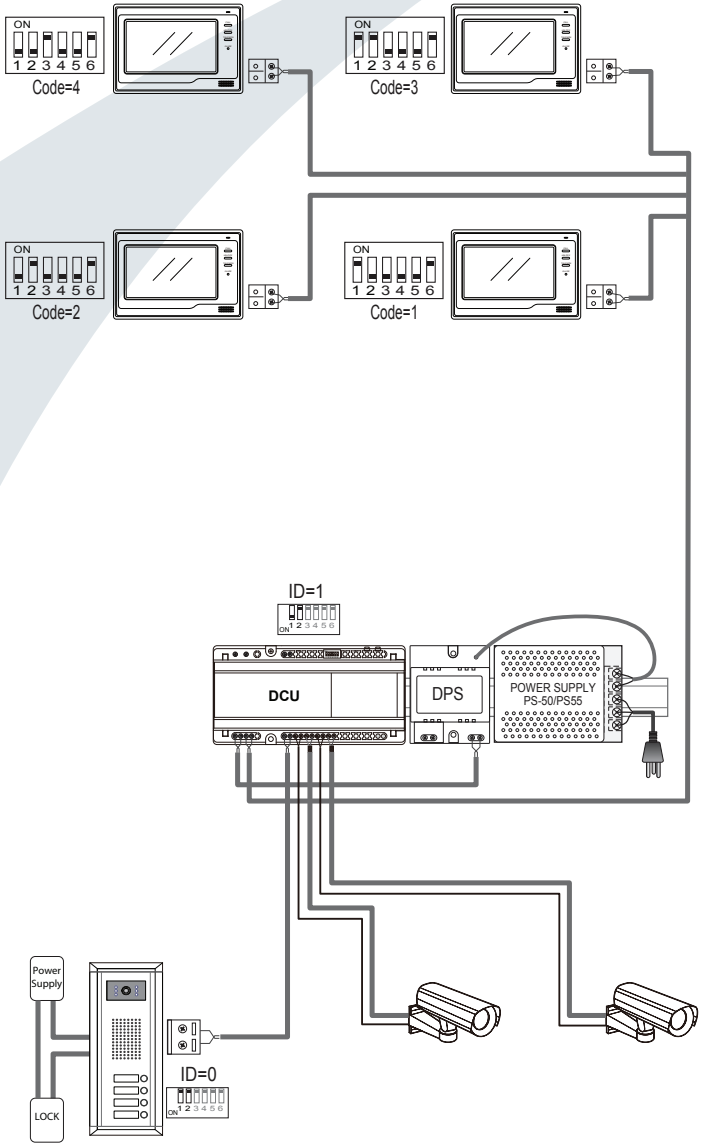
Example 3:



Example 4:



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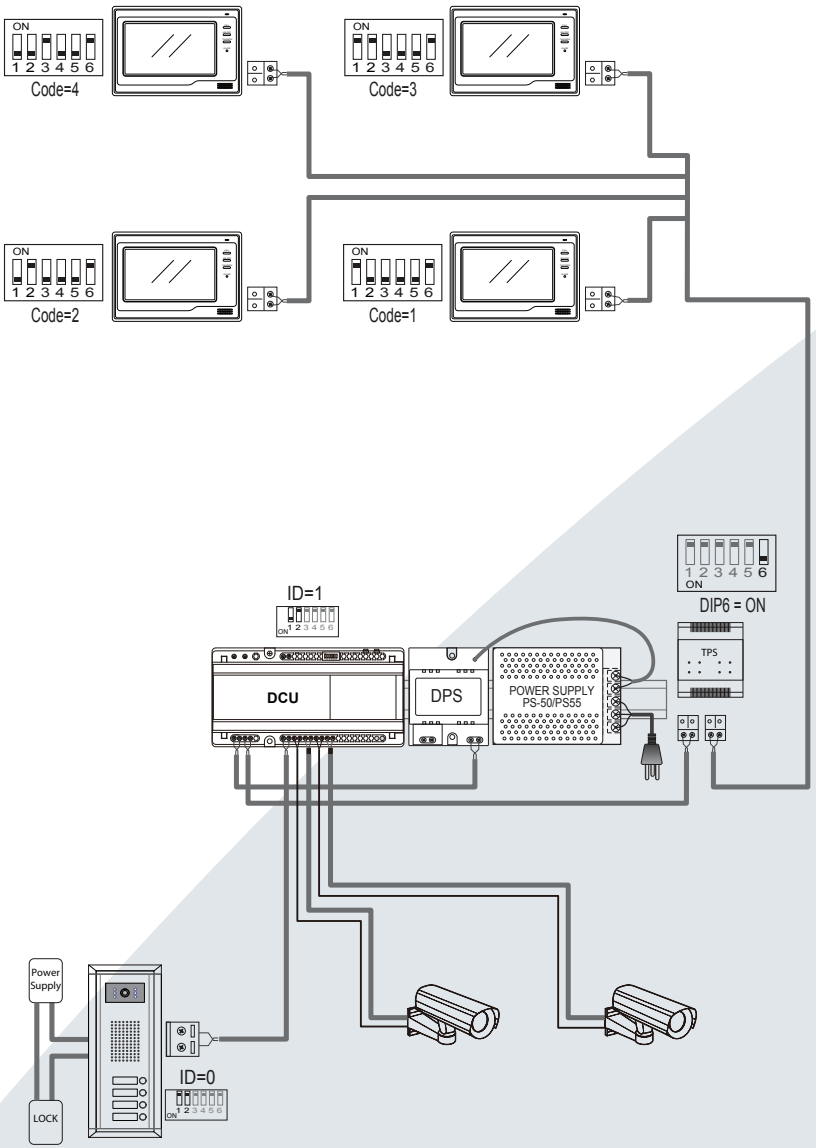
Example 5:



Example 6: